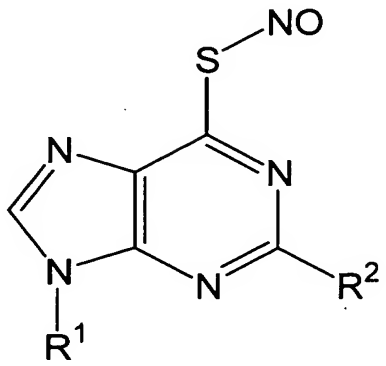
CLAIMS

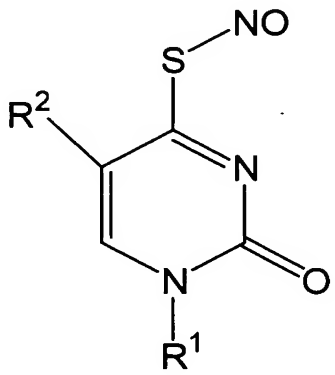
1. A thionucleoside-S-nitrosyl derivative of the following Formula (I) or a salt thereof:



(I)

[wherein R^1 represents ribose, 2-deoxyribose or a derivative of either, and R^2 represents a hydrogen atom, an amino group, a hydroxyl group, a halogen atom, a R^3-oxy group or a R^3-amino group (wherein R^3 represents an optionally substituted C_{1-15} alkyl group or an optionally substituted C_{1-15} acyl group)].

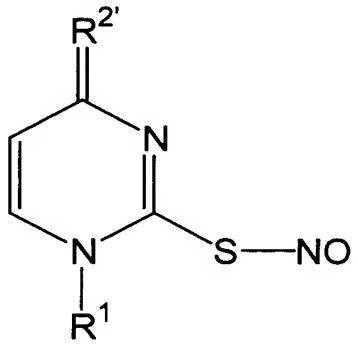
2. A thionucleoside-S-nitrosyl derivative of the following Formula (II) or a salt thereof:



(II)

[wherein R^1 represents ribose, 2-deoxyribose or a derivative of either, and R^2 represents a hydrogen atom, an amino group, a hydroxyl group, a halogen atom, a R^3-oxy group or a R^3-amino group (wherein R^3 represents an optionally substituted C_{1-15} alkyl group or an optionally substituted C_{1-15} acyl group)].

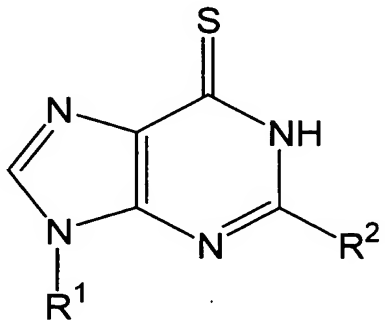
3. A thionucleoside-S-nitrosyl derivative of the following Formula (III) or a salt thereof:



(III)

(wherein R^1 represents ribose, 2-deoxyribose or a derivative of either, and $R^{2'}$ represents an oxygen atom, a sulfur atom or an imino group).

4. A method for preparing a thionucleoside-S-nitrosyl derivative, which comprises reacting a thionucleoside of the following Formula (IV):

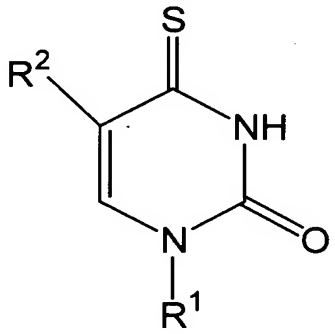


(IV)

[wherein R^1 represents ribose, 2-deoxyribose or a derivative of either, and R^2 represents a

hydrogen atom, an amino group, a hydroxyl group, a halogen atom, a R^3-oxy group or a R^3-amino group (wherein R^3 represents an optionally substituted C_{1-15} alkyl group or an optionally substituted C_{1-15} acyl group)] with a nitrosyl compound.

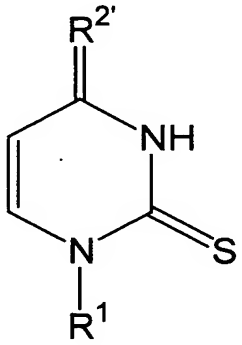
5. A method for preparing a thionucleoside-S-nitrosyl derivative, which comprises reacting a thionucleoside of the following Formula (V):



(V)

[wherein R^1 represents ribose, 2-deoxyribose or a derivative of either, and R^2 represents a hydrogen atom, an amino group, a hydroxyl group, a halogen atom, a R^3-oxy group or a R^3-amino group (wherein R^3 represents an optionally substituted C_{1-15} alkyl group or an optionally substituted C_{1-15} acyl group)] with a nitrosyl compound.

6. A method for preparing a thionucleoside-S-nitrosyl derivative, which comprises reacting a thionucleoside of the following Formula (VI):



(VI)

(wherein R^1 represents ribose, 2-deoxyribose or a derivative of either, and $R^{2'}$ represents an oxygen atom, a sulfur atom or an imino group) with a nitrosyl compound.

7. An oligonucleic acid comprising the derivative according to any one of claims 1 to 3 or a salt thereof.

8. The oligonucleic acid according to claim 7, which has a length of at least 12 bases.

9. A method for transferring a nitrosyl group, which comprises reacting the oligonucleic acid according to claim 7 or 8 with its complementary strand to transfer the nitrosyl group contained in the oligonucleic acid to a corresponding base in its complementary strand.

10. A method for mutagenesis of a nucleotide sequence, which comprises reacting the oligonucleic acid according to claim 7 or 8 with its complementary strand, and treating the resulting reaction product under acidic conditions.

11. The method according to claim 10, wherein the nucleotide sequence is a nucleotide sequence corresponding to the derivative in the oligonucleic acid.

12. The method according to claim 10 or 11, wherein the mutagenesis generates a mutation to uracil.

13. A mutagenic agent for a nucleotide sequence, which comprises at least one member selected from the group consisting of the derivative according to any one of claims 1 to 3 and the oligonucleic acids according to claims 7 and 8.

14. A mutagenesis kit for a nucleotide sequence, which comprises at least one member selected from the group consisting of the derivative according to any one of claims 1 to 3 and the oligonucleic acids according to claims 7 and 8.